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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,231	02/14	/2002	Charlotte Johansen	10151.200-US	1015
25908	7590	11/20/2003		EXAMI	NER
NOVOZYMES NORTH AMERICA, INC. 500 FIFTH AVENUE SUITE 1600				KUMAR, PREETI	
				ART UNIT	PAPER NUMBER
NEW YORK,	NY 10110	•	1751		
				DATE MAILED: 11/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			$(\lambda())$				
•		Application No.	Applicant(s)				
Office Action Summary		10/076,231	JOHANSEN ET AL.				
		Examin r	Art Unit				
		Preeti Kumar	1751				
Period fo	Th MAILING DATE of this communication ap or Reply	p ars on the cov r sheet with th	correspond nc address				
THE i - Exte after - If the - If NC - Failu - Any i	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statuted the period by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be oly within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fr e, cause the application to become ABANDO	days will be considered timely. Tom the mailing date of this communication. The mailing date of this communication.				
1)⊠	Responsive to communication(s) filed on 28 A	August 2003.					
2a)⊠	This action is <b>FINAL</b> . 2b) This	action is non-final.	•				
3)	Since this application is in condition for allowardosed in accordance with the practice under						
Disposit	ion of Claims		•				
4)⊠	Claim(s) 7-22 is/are pending in the application	<b>1.</b>					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) 7-22 is/are rejected.						
7)🖂	Claim(s) 10, 13 is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	ion Papers						
9)	The specification is objected to by the Examin	er.					
10)	The drawing(s) filed on is/are: a) acc	cepted or b) objected to by th	e Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Offi	ce Action or form PTO-152.				
Priority (	ınder 35 U.S.C. §§ 119 and 120						
12)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1 Certified copies of the priority documen		9(a)-(d) or (f).				
	<ul><li>2. Certified copies of the priority documen</li><li>3. Copies of the certified copies of the priority application from the International Burea</li></ul>	ts have been received in Applic prity documents have been rece nu (PCT Rule 17.2(a)).	ived in this National Stage				
13)∭ <i>A</i> si 3	See the attached detailed Office action for a list Acknowledgment is made of a claim for domestince a specific reference was included in the file?  7 CFR 1.78.	tic priority under 35 U.S.C. § 11 rst sentence of the specification	9(e) (to a provisional application) or in an Application Data Sheet.				
14) 🗌 🛭	)  The translation of the foreign language pracknowledgment is made of a claim for domesterence was included in the first sentence of t	tic priority under 35 U.S.C. §§ 1	20 and/or 121 since a specific				
Attachmen	• •						
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

Art Unit: 1751

#### **DETAILED ACTION**

#### Response to Amendment

- 1. Claims 1-6 are cancelled.
- 2. Claims 7-22 are pending.
- 3. The rejections made in the previous office action dated March 28, 2003 are withdrawn in light of Applicant's cancellation of the claims.

## Response to Arguments

4. Applicant's arguments with respect to claims 7-22 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 103

5. Claims 7-9 and 11-12 and 14-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blackburn et al. (US 5,762,948) in view of Johansen (US 6,287,585).

Blackburn et al. teach moist paper or fabric wipes which afford rapid, one-step disinfection and drying of surfaces. The wipes contain a liquid disinfectant formulation typically comprising a bacteriocin as the disinfecting agent, a stabilizer for the bacteriocin, a chelating agent, a surfactant, a salt, a skin conditioner or humectant, and an agent to promote rapid drying. The bacteriocin disinfecting agent can also be combined with commonly used germicidal agents, as appropriate. See col.2, In.23-40. Blackburn et al. teach that other peptide bacteriocins such as lysostaphin may also suitably be employed. See col.3, In.10-15. Blackburn et al. a disposable wipe of a paper or cloth fabric typically with a bacteriocin-based formulation further comprising a chelating agent, a salt component, a stabilizer, a drying agent and a surfactant. The

Art Unit: 1751

wipes provide efficient one-step disinfection and drying of surfaces and have applicability to any situation requiring sanitization of a surface. See col.2, In.65- col.3, In.5.

Blackburn et al. do not specifically teach a method of washing a fabric in an aqueous medium with a detergent composition comprising an enzyme having lysostaphin activity, a surfactant, and the specific enzymes recited in the instant claims.

Johansen teaches a method of inhibiting microorganisms present in laundry, wherein the laundry is treated with a soaking, washing or rinsing liquor comprising a poly-cationic compound and one or more enzymes, with the proviso that when the enzyme is an oxidoreductase then the poly-cationic compound is not a polylysine, polyarginine or a co-polymer thereof. See col.1, ln.57-64. Johansen teaches that the composition is useful as antimicrobial ingredient wherever such an ingredient is needed, for example for the preservation of cosmetics, contact lens products, or enzyme compositions; as a disinfectant for use e.g. on human or animal skin, mucous membranes, wounds, bruises or in the eye; for killing microbial cells in laundry; and for incorporation in cleaning compositions or disinfectants for hard surface cleaning or disinfection. See col.2, ln.15-25 and examples 2 and 3.

Specifically regarding the enzymes of claims 7-9, 11-12 and 14-16, Johansen teaches the utility of protease, lipase, amylase, xylanase, and pectinase. See col.4-col.6.

Specifically regarding the detergent composition of claims 17-22, Johansen teaches the utility of bleaching agents, suds controlling agents, soil-suspending agents,

Art Unit: 1751

soil-releasing agents, optical brighteners, abrasives, bactericides, tarnish inhibitors, coloring agents, and/or perfumes. Antiredeposition and soil suspension agents suitable herein include cellulose derivatives such as methylcellulose, carboxymethylcellulose and hydroxyethylcellulose, and homo- or co-polymeric polycarboxylic acids or their salts. Polymers of this type include the polyacrylates and maleic anhydride-acrylic acid copolymers previously mentioned as builders, as well as copolymers of maleic anhydride with ethylene, methylvinyl ether or methacrylic acid, the maleic anhydride constituting at least 20 mole percent of the copolymer. These materials are normally used at levels of from 0.5% to 10% by weight, more preferably form 0.75% to 8%, most preferably from 1% to 6% by weight of the composition. See col.23-24.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to wash a fabric with a detergent composition comprising an enzyme having lysostaphin activity, a surfactant, and the specific enzymes recited by the instant claims, because Johansen et al. teach a detergent composition comprising an enzyme derived from the staphylococcus epidermidis which is known in the art to produce lysostapin enzyme and the other requisite components as recited by the instant claims and furthermore, Blackburn et al teach a method of disinfection of surfaces in general with a bacteriocin based formulation comprising lysostapin a chelating agent a salt a stabilizer and a surfactant.

## Allowable Subject Matter

6. Claims 10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the

Art Unit: 1751

limitations of the base claim and any intervening claims. The prior art of record do not teach or suggest a method of washing a fabric in an aqueous medium with a detergent composition comprising an enzyme having lysostaphin activity, a surfactant, and the specific enzymes arabinase and mannanase.

#### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Preeti Kumar whose telephone number is 703-305-0178. The examiner can normally be reached on M-F 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra N. Gupta can be reached on 703-308-4708. The fax phone

Art Unit: 1751

number for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-872-9309.

PΚ

YOGENDRA N. GUPTA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700 Preeti Kumar Examiner Art Unit 1751